

Note: The photo is for illustration purposes only.  
Please refer to outline drawing

### ■ Features

- Ultra Wide Band: 0.1-20GHz
- Gain: 30dB
- Output Power: 15dBm
- High Output IP3: 25dBm

### ■ Applications

- Radar Systems
- Communication Systems
- Receivers Systems

### □ Electrical Specifications

Parameter	Min.	Typ.	Max	Min.	Typ.	Max	Units
Frequency Range	0.1-16		16-20				GHz
Gain	30	32		30	31		dB
Gain Flatness		$\pm 1.5$	$\pm 2$		$\pm 1.5$	$\pm 2$	dB
Gain Variation Over Temperature		$\pm 1$			$\pm 1$		dB
Input VSWR		1.5	2.0		1.5	2.2	
Output VSWR		1.8	2.0		1.8	2.2	
Output Power for 1 dB	15			15			dBm
Saturated Output Power (Psat)		16			16		dBm
Noise Figure		2.5	3.0		2.8	3.6	dB
OIP3		25			25		
Input Max Power(no damage)			-10			-10	dBm
DC Current (Vcc=+12V)		140	160		140	160	mA
Impedance	50						$\Omega$
Input Output Connector	SMA-k/SMA-K						
Material	Aluminium/Gold						
Weight	50g						
Package Sealing	General Sealing (Standard);						

### Environmental Conditions

Operational Temperature	0°C~+50°C	Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Storage Temperature	-55°C~+125°C	Shock	20G for 11msc half sin wave, 3 axis both directions
Executive Standard	MIL-STD-810G	Humidity	100% RH at 35c, 95%RH at 40°C

### Absolute Maximum Ratings

Supply Bias Voltage	15V
RF INPUT POWER	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V

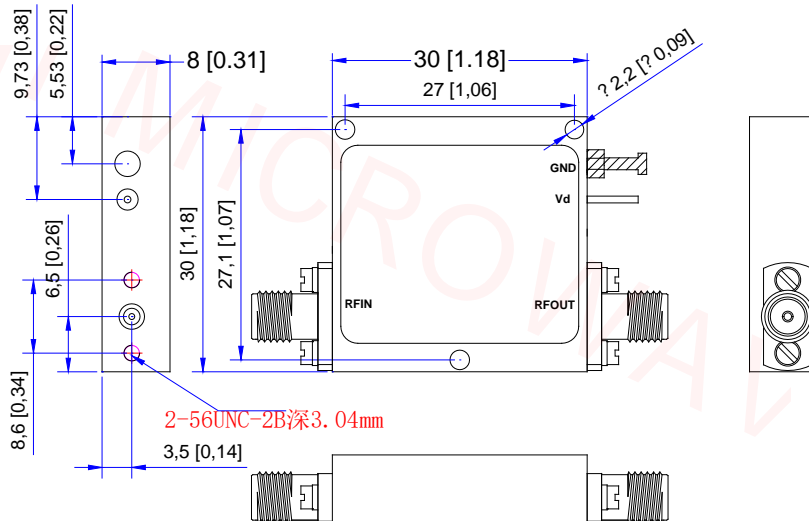


OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES



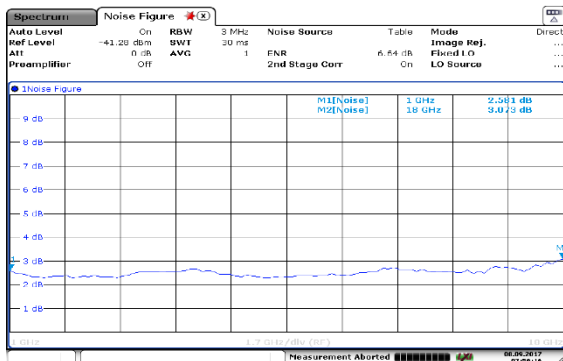
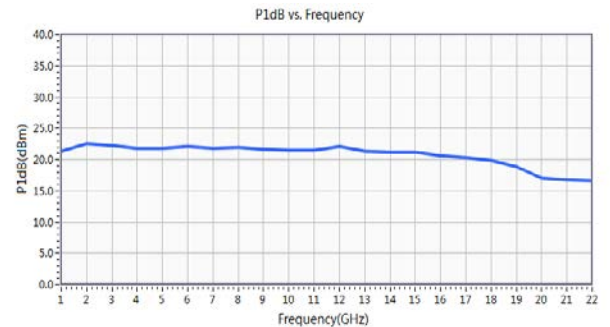
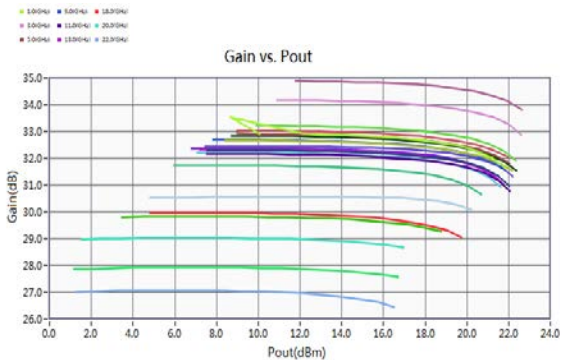
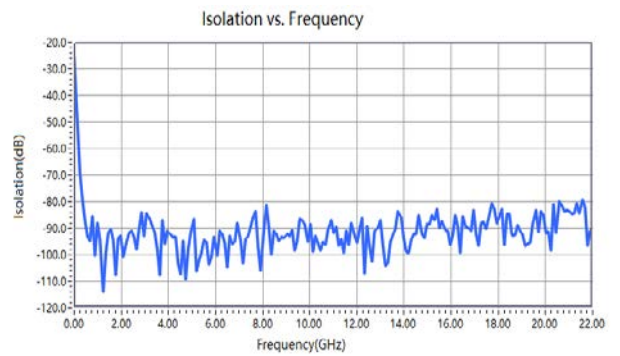
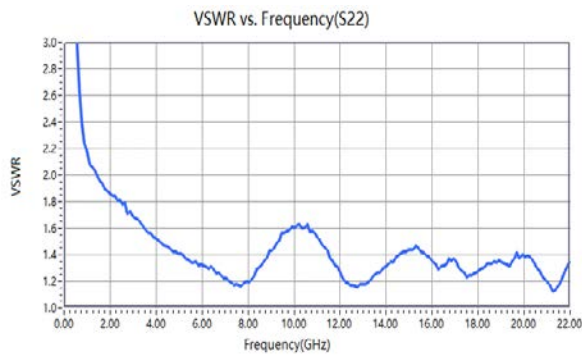
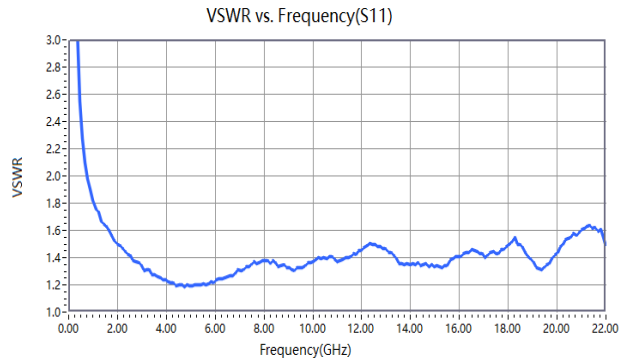
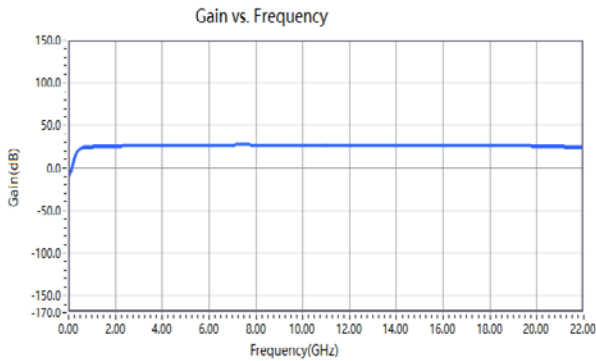
### Outline Drawing

All Dimensions in mm ( inches ) Tolerance  $\pm 0.25$  ( 0.01 )



**\*\*\*Heat Sink required during operation\*\*\***

### ■ Typical Parameters



Date: 8 SEP 2017 07:59:17